

OIL ANALYSIS REPORT

Area

MAGENTA NTX [46004111]

D622160

Wind Turbine Gearbox

SHELL OMALA S5 WIND 320 (--- LTR)

Sample Rating Trend N Deci9922



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

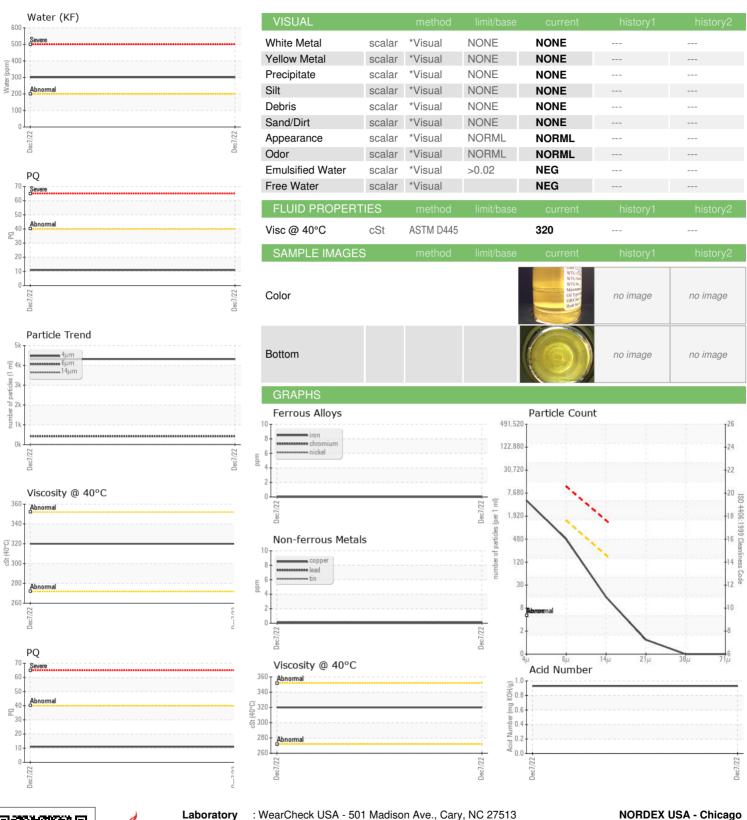
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Dec2022		
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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		NX011755		
Sample Date		Client Info		07 Dec 2022		
Machine Age	hrs	Client Info		0		
Dil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>40	11		
ron	ppm	ASTM D5185m	>55	0		
Chromium	ppm	ASTM D5185m	>2	0		
lickel	ppm	ASTM D5185m	>2	0		
- itanium	ppm	ASTM D5185m	>10	0		
Silver	ppm	ASTM D5185m		0		
luminum	ppm	ASTM D5185m	>15	<1		
.ead	ppm	ASTM D5185m	>3	0		
Copper	ppm	ASTM D5185m	>7	<1		
in	ppm	ASTM D5185m	>3	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history
Boron	ppm	ASTM D5185m		0		
arium	ppm	ASTM D5185m		0		
folybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
/lagnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
hosphorus	ppm	ASTM D5185m		489		
inc.	ppm	ASTM D5185m		2		
Sulfur	ppm	ASTM D5185m		3963		
CONTAMINANTS	S	method	limit/base	current	history1	history
Silicon	ppm	ASTM D5185m	>35	1		
odium	ppm	ASTM D5185m		0		
otassium	ppm	ASTM D5185m	>20	0		
Vater	%	ASTM D6304	>0.02	0.030		
pm Water	ppm	ASTM D6304	>200	300.7		
FLUID CLEANLII	NESS	method	limit/base	current	history1	history
Particles >4µm		ASTM D7647		4318		
articles >6µm		ASTM D7647	>1300	421		
Particles >14µm		ASTM D7647	>160	13		
articles >21µm		ASTM D7647	>40	1		
articles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647		0		
Dil Cleanliness		ISO 4406 (c)	>17/14	16/11		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2

Contact/Location: KEVIN REGAN - NORDEX



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Laboratory Sample No. Lab Number

: NX011755 : 05718715 Unique Number : 10258291

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 15 Dec 2022 : 16 Dec 2022 Diagnosed : 16 Dec 2022 - Jonathan Hester

300 SOUTH WACKER DRIVE, SUITE 1500 CHICAGO, IL US 60606 Contact: KEVIN REGAN

KRegan@nordex-online.com

Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (312)386-7102

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